

CLAIMS

1. An acoustic liner (1), characterized in that it comprises a layer (3) of a metallic foam.
2. An acoustic liner according to claim 1, characterized in that it further comprises a liner core (2).
3. An acoustic liner according to claim 2, characterized in that it has a non-linearity factor within a range between 1.0 and 3.0.
4. An acoustic liner according to claim 3, characterized in that the non-linearity factor is within a range between 1 and 2.5.
5. An acoustic liner according to claim 4, characterized in that the non-linearity factor is within a range between 1.5 and 2.0.
6. An acoustic liner according to claim 2, characterized in that a first surface of said metallic foam layer (3) is attached to one side of said liner core (2).
7. An acoustic liner according to claim 2, characterized in that the liner core (2) is a honeycomb core.
8. A metallic liner according to claim 2, characterized in that the liner core (2) is a core of metallic foam.
9. An acoustic liner according to claim 2, characterized in that it further comprises a perforated sheet (4) attached to the metallic foam layer (3).
10. An acoustic liner according to claim 1, characterized in that the metallic foam layer (3) is arranged to withstand temperatures above about 400°C.

11. An acoustic liner according to claim 10, characterized in that the metallic foam layer (3) is arranged to withstand temperatures around 700°C.
- 5 12. An acoustic liner according to claim 11, characterized in that the metallic foam layer (3) comprises a metal or metal alloy including Nickel, Titanium and/or Chromium.
- 10 13. An acoustic liner according to claim 1, characterized in that the metallic foam is at least partly open-porous.
14. Use of a liner comprising a layer (3) of a metallic foam as an acoustic liner.
- 15 15. Use of liner according to claim 14, characterized in that the liner is used in a hot stream environment.
16. Use of a liner according to claim 15, characterized in that it is used in a hot area of an aircraft engine.
- 20 17. Method for manufacturing an acoustic liner (1), characterized in that a top sheet (5) including a metallic foam layer (3) is brazed onto one side of a liner core (2).
- 25 18. Method according to claim 17, characterized in that a perforated sheet (4) is brazed onto the foam layer (3) in forming the top sheet (5).